

10/009873

AC13 Rec'd PCT/PTO 11 DEC 2001

(Atty. Docket No.: SHW-009US)

IN THE UNITED STATES PATENT DESIGNATED OFFICE (DO/US)
(National Phase of International Appln.: PCT/GB00/02286,
Publication No. WO 00/77181 A2)

In re the
application of: **Anand RANGANATHAN**

International Application No.: **PCT/GB00/02286**

International Filing Date: **12 June 2000**

U.S. Serial No.: **Not yet assigned**

Filed: **Herewith**

For: **DNA MANIPULATION METHODS AND
APPLICATIONS FOR SYNTHETIC ENZYMES**

Attorney Docket No.: **SHW-009US**

Commissioner for Patents
BOX PCT
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97, and § 1.98, Applicant herewith makes of record the following publications which may be material during prosecution of the above-referenced patent application.

U.S. Patent No. 4,713,337 A (Jasin Maria *et al.*)

U.S. Patent No. 4,963,487 A (Schimmel)

U.S. Patent No. 5,863,730 A (Masson *et al.*)

European Publication No. EP 0 841 402 A, published
May 13, 1998

PCT International Publication No. WO 96 40968 A, published
December 19, 1996

PCT International Publication No. WO 97 28282 A, published
August 7, 1997

PCT International Publication No. WO 98/17811 A, published
April 30, 1998

PCT International Publication No. WO 98/38326 A, published
September 3, 1998

PCT International Publication No. WO 98/49315 A, published
November 5, 1998

PCT International Publication No. WO 00/63360 A, published
October 26, 2000

D. M. Tapiolas *et al.*, "Octalactins A and B Cytotoxic Eight-Membered-Ring Lactones from a Marine Bacterium Streptomyces-SP," *Journal of the American Chemical Society*, (1991), Vol. 113, no. 2, pages 4682-4683

J. B. Nerenberg *et al.*, "Total Synthesis of the Immunosuppressive Agent (-)-Discodermolide," *Journal of the American Chemical Society, U.S., American Chemical Society, Washington, D.C.*, (1993), Vol. 115, no. 26, pages 12621-12622

Shinya Yamada *et al.*, "Total Synthesis of (-)-Decarestrictine J.," *Bioscience Biotechnology and Biochemistry*, (1995), Vol. 59, no. 9, pages 1657-1660

Ter Haar Ernst *et al.*, "Discodermolide, a Cytotoxic Marine Agent that Stabilizes Microtubules More Potently than Taxol," *Biochemistry*, (1996), Vol. 35, no. 1, pages 243-250

G. Muth *et al.*, "Mutational Analysis of Streptomyces Lividans recA Gene Suggests that only Mutants with Residual Activity Remain Viable," *Molecular & General Genetics*, (1997), Vol. 255, no. 4, pages 420-428

C. J. Rowe *et al.*, "Construction of New Vectors for High-Level Expression in Actinomycetes," *Gene, NL, Elsevier Biomedical Press, Amsterdam*, (1998-08), Vol. 216, no. 1, pages 215-223

R. McDaniel *et al.*, "Multiple Genetic Modifications of the Erythromycin Polyketide Synthase to Produce a Library of Novel Unnatural Natural Products," *Proceedings of the National Academy of Sciences of USA, National Academy of Science, Washington, US.*, (1999-03), Vol. 96, no. 5, pages 1846-1851

Anand Ranganathan *et al.*, "Knowledge-Based Design of Bimodular and Trimodular Polyketide Synthases Based on Domain and Module Swaps: A Route to Simple Statin Analogues," *Chemistry & Biology (London)*, (1999-10), Vol. 6, no. 10, pages 731-741

Since these publications have previously been transmitted by the International Bureau, along with the Search Report, to all the designated Offices, Applicant does not enclose copies herewith.

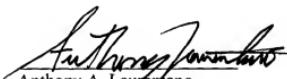
This statement is *not* to be interpreted as a representation that the cited publications are material, that Applicant has conducted an exhaustive search, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicant understands the Examiner will make an independent evaluation of the cited publications.

A reproduction of PTO Form 1449 accompanies this statement.

No costs are believed due in connection with the filing of this Information Disclosure Statement. However, if there are any associated costs, please charge them to our Deposit Order Account No. 12-0080.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP


Anthony A. Laurenzano
Registration No. 38,220
Attorney for Applicant

28 State Street
Boston, MA 02109
(617) 227-7400
Date: December 11, 2001

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO.	SERIAL NO.
				SHW-009US	Not Yet Assigned
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT	
				Anand RANGANATHAN	GROUP
				FILING DATE	
				Herewith	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,713,337 A	12/87	Jasin Maria <i>et al.</i>			
AB	4,963,487 A	10/90	Schimmel			
AC	5,863,730 A	01/99	Masson <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AD	EP 0 841 402 A	05/98	EPO				
AE	WO 96 40968 A	12/96	PCT				
AF	WO 97 28282 A	08/97	PCT				
AG	WO 98/17811 A	04/98	PCT				
AH	WO 98/38326 A	09/98	PCT				
AI	WO 98/49315 A	11/98	PCT				
AJ	WO 00/63360 A	10/00	PCT				

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

AK	D. M. Tapiolas <i>et al.</i> , "Octalactins A and B Cytotoxic Eight-Membered-Ring Lactones from a Marine Bacterium Streptomyces-SP," <i>Journal of the American Chemical Society</i> , (1991), Vol. 113, no. 2, pages 4682-4683
AL	J. B. Nerenberg <i>et al.</i> , "Total Synthesis of the Immunosuppressive Agent (-)-Discodermolide," <i>Journal of the American Chemical Society, U.S., American Chemical Society, Washington, D.C.</i> , (1993), Vol. 115, no. 26, pages 12621-12622
AM	Shinya Yamada <i>et al.</i> , "Total Synthesis of (-)-Decarestricrine J," <i>Bioscience Biotechnology and Biochemistry</i> , (1995), Vol. 59, no. 9, pages 1657-1660
AN	Ter Haar Ernst <i>et al.</i> , "Discodermolide, a Cytotoxic Marine Agent that Stabilizes Microtubules More Potently than Taxol," <i>Biochemistry</i> , (1996), Vol. 35, no. 1, pages 243-250
AO	G. Muth <i>et al.</i> , "Mutational Analysis of Streptomyces Lividans recA Gene Suggests that only Mutants with Residual Activity Remain Viable," <i>Molecular & General Genetics</i> , (1997), Vol. 255, no. 4, pages 420-428
AP	C. J. Rowe <i>et al.</i> , "Construction of New Vectors for High-Level Expression in Actinomycetes," <i>Gene, NL, Elsevier Biomedical Press, Amsterdam</i> , (1998-08), Vol. 216, no. 1, pages 215-223
AQ	R. McDaniel <i>et al.</i> , "Multiple Genetic Modifications of the Erythromycin Polyketide Synthase to Produce a Library of Novel Unnatural Natural Products," <i>Proceedings of the National Academy of Sciences of USA, National Academy of Science, Washington, US</i> , (1999-03), Vol. 96, no. 5, pages 1846-1851
AR	Anand Ranganathan <i>et al.</i> , "Knowledge-Based Design of Bimodular and Trimodular Polyketide Synthases Based on Domain and Module Swaps: A Route to Simple Statin Analogues," <i>Chemistry & Biology (London)</i> , (1999-10), Vol. 6, no. 10, pages 731-741

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.